Docket No.: 47253-00044USPX (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Leif Wilhelmsson et al.

Application No.: Not Yet Assigned

Confirmation No.: N/A

Filed: Concurrently Herewith

Art Unit: N/A

For:

SOFT VALUE CALCULATION FOR

MULTILEVEL SIGNALS

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS DO/EO/US Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

A copy of each reference on the PTO/SB/08 is attached.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any

Application No.: Not signed 10/506913 ket No.: 47253-00044USPX

patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 10-0447, under Order No. 47253-00044USPX. A duplicate copy of this paper is enclosed.

Dated: September 3, 2004

Respectfully submitted,

Registration No.: 26,958

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Attorneys For Applicant



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		. •		Application Number	Not Yet Assigned		
INFORMATION DISCLOSURE				Filing Date	Concurrently Herewith		
l s	TATEMENT	BY A	PPLICANT	First Named Inventor	Leif Wilhelmsson		
				Art Unit	N/A		
	(Use as many sheets as necessary)			Examiner Name	Not Yet Assigned		
Sheet	1	of	1	Attorney Docket Number	47253-00044USPX		

U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document			
	A1	US-5,657,354	08-12-1997	Thesling, III et al.			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY		Name of Patentee or Applicant of Cited Document	T⁵
	B1	WO 00/44141	07-27-2000	Ericsson Inc.		
	B2	DE 199 12 825 C 1	08-10-2000	Siemens AG		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.usplo.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁸ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No.1	The managina journal carial symposium catalog atc.) data hadats) volume-issue numberts, bublisher cuv				
	C1	Günter Hellstern; "Coded Modulation with Feedback Decoding Trellis Codes"; Proceedings of the International Conference on Communications, IEEE, Volume 2, May 23, 1993; pages 1071-1075.				
	C2	Michael Speth et al; "Low Complexity Space-Frequency MLSE for Multi-user COFDM"; Global Telecommunications Conference - Globecom '99; IEEE, Volume 5, December 5, 1999, pages 2395-2399				
	СЗ	K. Fagervik et al.; "Low Complexity Bit By Bit Soft Output Demodulator"; Electronics Letters; Volume 32, No. 11, May 23, 1996. pages. 985-987.				

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner	Date	
Signature	Considered	

¹Applicant's unique citation designation number (optional). 2Applicant is to place a check mark here if English language Translation is attached.